# Cytometer Performance Report

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|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 12/13/2017 10:01 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/18/2017 09:13 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017 (Expired)
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124525 | -1 | 1.52 | 124439 | 1.46 |
| Blue | F | SSC | 125000 | 123723 | -2 | 2.40 | 124172 | 2.17 |
| Blue | E | FITC | 23615 | 22802 | -4 | 2.48 | 1012 | 10.21 |
| Blue | D | PE | 26739 | 26182 | -3 | 2.13 | 940 | 9.72 |
| Blue | B | PerCP-Cy5-5 | 48339 | 47604 | -2 | 3.44 | 1371 | 16.81 |
| Blue | A | PE-Cy7 | 45021 | 44588 | -1 | 5.07 | 687 | 36.41 |
| Red | C | APC | 53064 | 52579 | -1 | 2.79 | 3049 | 9.68 |
| Red | A | APC-Cy7 | 57175 | 56105 | -2 | 2.80 | 1157 | 11.32 |
| Violet | B | V450 | 14728 | 13990 | -6 | 5.06 | 669 | 9.54 |
| Violet | A | V500 | 58621 | 56986 | -3 | 4.90 | 2517 | 7.20 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19815 | 2.59 | 607 | -7 | N/A | N/A | Pass |
| Blue | F | SSC | 61001 | 1.62 | 544 | -2 | N/A | N/A | Pass |
| Blue | E | FITC | 115 | 39.65 | 545 | -3 | 0.0214 | 229 | Pass |
| Blue | D | PE | 207 | 29.65 | 535 | -1 | 0.1750 | 308 | Pass |
| Blue | B | PerCP-Cy5-5 | 215 | 45.12 | 634 | -1 | 0.0103 | 120 | Pass |
| Blue | A | PE-Cy7 | 72 | 123.55 | 693 | 0 | 0.0113 | 13 | Pass |
| Red | C | APC | 352 | 28.57 | 599 | 2 | 0.0192 | 70 | Pass |
| Red | A | APC-Cy7 | 127 | 40.81 | 582 | 2 | 0.0054 | 1616 | Pass |
| Violet | B | V450 | 81 | 40.58 | 466 | -4 | 0.0436 | 1542 | Pass |
| Violet | A | V500 | 185 | 22.07 | 494 | -3 | 0.0138 | 137 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 12/13/2017 10:01 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/18/2017 09:13 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.44 | -31.21 | 0.86 |
| Blue | 20.34 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.34 |
| Red | 17.54 | 14.40 - 21.60 | N/A | N/A | 31.28 | 31.59 | 1.17 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 11187

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments